

# INMETRO Hazardous Area Approvals for Fisher® 646 Electro-Pneumatic Transducer

This supplement provides INMETRO Hazardous Area Approval information for the 646 transducer electro-pneumatic transducer. Use this in conjunction with information provided in the [646 instruction manual \(D101351X012\)](#).

INMETRO—National Institute of Metrology, Quality and Technology. INMETRO approval is accepted in Brazil.

Certain nameplates may carry more than one approval, and each approval may have unique installation/wiring requirements and/or conditions of “safe use”. These special instructions for “safe use” are in addition to, and may override, the standard installation procedures. Refer to the [instruction manual](#) for all other information regarding 646 transducers.

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**Note**

This information supplements the nameplate markings affixed to the product.

Always refer to the nameplate itself to identify the appropriate certification.

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**⚠ WARNING**

Failure to follow these conditions of “safe use” could result in personal injury or property damage from fire or explosion, and area re-classification.

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Certificate Number: IEx 14.0240

**Standards Used for Certification**

ABNT NBR IEC 60079-0:2013

ABNT NBR IEC 60079-1:2009

ABNT NBR IEC 60079-11:2013

ABNT NBR IEC 60079-15:2012

**Intrinsically Safe**

Ex ia IIC T5/T4 Ga

Tamb = -40°C to: +40°C for T5 ; +71°C for T4

**Nominal Characteristics:**

30 Vmax, 4-20 mA

Ui = 30 V ; Ii = 150 mA ; Pi = 1 W ; Ci = 0 nF ; Li = 0 mH



**Flameproof**

Ex d IIC T6 Gb

Tamb = -40°C to: +71°C for T6

Nominal Characteristics: 30 Vmax, 4-20 mA

**Type n**

Ex nA IIC T6 Gc

Tamb = -40°C to +71°C

Nominal Characteristics: 30 Vmax, 4-20 mA

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Emerson Process Management  
Marshalltown, Iowa 50158 USA  
Sorocaba, 18087 Brazil  
Chatham, Kent ME4 4QZ UK  
Dubai, United Arab Emirates  
Singapore 128461 Singapore

[www.Fisher.com](http://www.Fisher.com)